Poster Presentations

Track 1- Cell Tissue Biomechanics

**Bone**
- Martinez, Jerahme
  - Expression pattern of the mechanoresponsive ion channel piezo2 during skeletal growth and osteoarthritis
- Parajuli, Ashutosh
  - Heparin Treatment Rescued Altered Osteoclastogenesis and Osteoblastogenesis in Progenitor Cells from Perlecan Deficient Bone Marrow
- Wang, Shubo
  - Effects of Physical Activity on Breast Cancer Bone Metastasis

**Cartilage & OA**
- Benson, Jamie
  - The effects of contact stress and articulation amplitude on fluid load support in articular cartilage
- Farnham, Margot
  - Mechanical Injury Alters Tribological Rehydration and Lubrication in Bovine Osteochondral Explants
- Lv, Mengxi
  - Chondro-protective Mechanism of Statin
- Wright, Alison
  - Quantifying Solute Diffusivity in Human Osteoarthritic Cartilage via Correlation Spectroscopy

**Spine & Others**
- Horner, Jeffrey
  - Modeling Blood Rheology Across Species

Track 2- Clinical Biomechanics

**Design & Innovation**
- Parker, Sheridan
  - SmartBoot 2.0

**Gait & OA**
- Aljehani, Moiyad
  - Association of Clinical and Functional Outcomes with Risk of Fall in Knee Osteoarthritis Patients
- Fetrow, Tyler
  - Coordination of balance mechanisms during walking
- Kempski, Kelley
  - Contribution to forward propulsion with induced asymmetric gait and user-driven treadmill control
- Mathews, Dana
  - The Relation of Cumulative Load to Worsening Knee Cartilage Damage Over Two Years: The MOST Study
- Tracy, James
  - Dynamic stability during walking in children with and without cerebral palsy: a pilot study

**Neuromuscular Modeling & Assessments**
- Farrens, Andria
  - The Neural Correlates of Motor Adaptation to Dynamic Perturbations
- Sprague, Andrew
  - Impaired quadriceps Function may not be captured by standard clinical measures in patellar tendinopathy